MULTIMEDIA UNIVERSITY

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 1, 2017/2018

DAC5038 – COMPUTER APPLICATIONS FOR ENGINEERING

(Section E16 only)

16 OCTOBER 2017
2.30 p.m. – 4.30 p.m.
(2 Hours)

INSTRUCTIONS TO STUDENT:

1. This question paper consists of **TWO (2)** pages.
2. There are **FIVE (5)** structured questions in this paper. Each question carries total of **20 Marks**.
3. Answer **ALL** questions in the **Answer Booklet** provided.

Structured Questions [100 Marks]
Instruction: Please write all your answers in the **Answer Booklet** provided.

QUESTION 1 [20 marks]

a) Describe **FOUR** types of computers.

(8 marks)

b) Define ergonomics and state **FIVE** guidelines that can help you more comfortable and productive when working with computer.

(7 marks)

c) Lee Chong Wei plans to purchase shoes online. Explain **FIVE** guidelines for secure online shopping.

(5 marks)

QUESTION 2 [20 marks]

a) Differentiate between system software and application software. Provide **TWO** examples of application for each.

(10 marks)

b) Define **THREE** types of user interface provided by the operating system.

(6 marks)

c) Briefly explain file compression utilities.

(4 marks)

QUESTION 3 [20 marks]

a) You are a technician of company name Bora Sdn. Bhd. With your experience as a technician, explain what are the criteria to be considered when purchasing a brand new computer.

(5 marks)

b) When the CPU performs a program instruction, it goes through a process call machine cycle. Describe all the **FOUR** steps.

(4 marks)

c) Briefly explain **THREE** types of video ports.

(6 marks)

d) Describe any **FIVE** procedures to ensure your system performs reliably.

(5 marks)

Continued...

QUESTION 4 [20 marks]

a) Define *node*. Provide **THREE** related examples of *node.*

(4 marks)

b) You have just started working as a new technician at a telecommunication company in Malaysia. Your manager has asked you to get familiar with the common issues of broadband available recently.

i. What is a broadband? Provide **ONE** example of broadband provider in Malaysia.

(3 marks)

ii. Discuss **THREE** types of wired broadband categorised by transmission medium and speed.

(9 marks)

c) Briefly explain **TWO** ways to synchronise information between smartphone and computer.

(4 marks)

QUESTION 5 [20 marks]

a) Define hacker and briefly explain **THREE** types of hackers regardless of legal or illegal purposes.

(8 marks)

b) How biometric authentication devices work? Provide **FOUR** methods of the biometric authentication.

(6 marks)

c) Discuss **THREE** advantages and **THREE** disadvantages of databases.

(6 marks)

[TOTAL 100 MARKS]

End of Page.